OIPE

RAW SEQUENCE LISTING

DATE: 12/14/2001

PATENT APPLICATION: US/10/006,191

TIME: 10:30:19

Input Set : A:\RTS-0274 Sequence Listing.txt Output Set: N:\CRF3\12142001\1006191.raw

ENTERED

6	<110> APPLICANT: William Gaarde														
7	Andrew T. Watt														
9	<120> TITLE OF INVENTION: ANTISENSE MODULATION OF CONNECTIVE TISSU	E GROWTH FACTOR													
EXPRESS	PRESSION														
11	<130> FILE REFERENCE: RTS-0274														
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	gtgccaacc atg acc gcc gcc agt atg ggc ccc gtc cgc gtc gcc ttc gtg														
55	Met Thr Ala Ala Ser Met Gly Pro Val Arg Val Ala Phe Val	1/1													
56	1 5 10														
	-	219													
	gtc ctc ctc gcc ctc tgc agc cgg ccg gcc gtc ggc cag aac tgc agc Val Leu Leu Ala Leu Cys Ser Arg Pro Ala Val Gly Gln Asn Cys Ser	219													
60		267													
		207													
	Gly Pro Cys Arg Cys Pro Asp Glu Pro Ala Pro Arg Cys Pro Ala Gly 35 40 45														
64 66		215													
		315													
	Val Ser Leu Val Leu Asp Gly Cys Gly Cys Cys Arg Val Cys Ala Lys														
68	50 55 60	363													
		363													
/ 1	Gln Leu Gly Glu Leu Cys Thr Glu Arg Asp Pro Cys Asp Pro His Lys														





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70			65					70					75					
72 74 a	ıac	ctc	++0	t.at.	gac	ttc	qqc	ticc	ccg	gcc	aac	cgc	aag	atc	ggc	gt	.g	411
75 G	190 11v	Leu	Phe	Cvs	Asp	Phe	ĞÎy	Ser	Pro	Ala	Asn	Arg	Lys	Ile	Gly	۷a	1	
76		80					85					90						450
70 +	gc	acc	gcc	aaa	gat	ggt	gct	CCC	tgc	atc	ttc	ggt	ggt	acg	gtg	ta	iC	459
79 C	Żys	Thr	Ala	Lys	Asp	Gly	Ala	Pro	Cys	Ile	Phe	GLY	Gly	Thr	vaı	ту 11	' Τ	
Q٨	9.5					100					TOD					11	LU	507
82 c	ege	agc	gga	gag	tcc	ttc	cag	agc	agc	tgc	aag	Tac	cag	Cve	Thr	75	7 C	307
83 A	۱rg	Ser	Gly	Glu		Phe	GIn	ser	ser	120	ьys	тут	Gln	СУЗ	125	C	, 5	
84					115			2+4	000		tac	agg	atα	gac		cc	rt.	555
86 c	ctg	gac	ggg	gcg	gtg	ggc	tge	Mot	Dro	T.OII	Cve	Ser	atg Met	Asp	Val	Aı	ra	
	Leu	Asp	GTA		vaı	СТА	Cys	Met	135	пец	Cys	501	1100	140			,	
88				130	~~ ~	+ ~ ~	000	ttc		agg	аσσ	atc	aag		ccc	go	gg	603
90 0	ctg	CCC	agc	Dro	yac Acn	Cve	Dro	Phe	Pro	Ara	Ara	Val	Lys	Leu	Pro	Ğ.	Ĺý	
	Leu	PIO	145		кър	Cys	110	150	110	5	5		155					
92		+ 00	143	σασ	σασ	taa	at.a	tat	gac	qaq	ccc	aag	gac	caa	acc	g1	tg	651
05 1	aaa Luc	Cve	Cvs	Glu	Glu	Trp	Val	Cvs	Asp	Ğlu	Pro	Lys	Asp	Gln	Thr	Vá	al	
96		160					165					T/0						
08 /	at.t.	ααα	cct	qcc	cto	gcg	gct	tac	cga	ctg	gaa	gac	acg	ttt	ggc	C	ca	699
99 1	Val	Glv	Pro	Ála	Leu	Ālā	Āla	Tyr	Arg	Leu	Glu	Asp	Thr	Phe	Gly	Ρ.	LO	
100	175	;				18	0				18	5					TAO	747
102	gad	c cc	a ac	t at	g at	t ag	a go	c aa	c tg	c ct	g gt	.c ca	g ac	c ac	a ga	g	tgg	747
103	Asp	Pr	o Th	r Me	t Il	e Ar	g Al	a As	n Cy	s Le	u Va	11 G1	n Th	r Th	T GI	u	rrp	
104					19	5				20	0				20)		795
106	ago	g gc	c tg	t to	c aa	g ac	c tg	rt gg	g at	g gg	c at	C TO	c ac	c cg	y yı	1	Thr	195
107	Sei	c Al	а Су			s Th	r Cy	's GI	у ме	t GI	у тл	e se	r Th	22	y va	. 1	T 11T	
108				21	.0			+	21		a a=	or ac	יכ כמ			C	at.o	843
110	aat	t ga	c aa	ic go	ec to	c tg	c ag	g cu	aya uc1	.y a.a	re G1	in Se	c cg r Ar	a Le	u Cv	s	Met	
		n As			.a se	er Cy	S AI	.у <u>Бе</u> 23	n n	u by	5 0.		23	5	1			
112	~ + .		22	;) :+ +c	, a	а по	t aa			a qa	or a a	ac at	t aa	g aa	ıg gg	lC	aaa	891
115	910	jay 1 Ar	g CC	ים פי	,c 90	ıu go	a As	sp Le	u Gl	u G1	ū As	sn Il	e Ly	s Ly	s Gl	-У	Lys	
116		24		.0 0			24	15				25	50					
11Ω	22	a ta	c at	c co	ıt ac	et co	c aa	aa at	c to	c aa	ig co	ct at	c aa	ıg tt	t ga	ıg	ctt	939
119	Lv	s Cv	s Il	Le Ai	rg Tì	ır Pr	o L	s Il	e Se	er Ly	s P	ro Il	le Ly	s Ph	ne Gl	Lu	Leu	
120	25	5				26	0				20	55					2/0	
122	to	t aa	c to	gc ac	cc ag	jc at	g aa	ag ac	a ta	c cg	ga go	ct aa	aa tt	c to	gt gg	ja	gta	987
123	Se	r Ğl	у С	s Tl	ar Se	er Me	t Ly	s Th	ır Ty	r Ai	ng A.	га г	ys Pr	ie Ci	S G	Ly	Val	
124					2	75				28	30				. 20	3 3		1035
126	tg	t ac	ec ga	ac g	ge e	ga to	rc to	gc ac	cc cc	C C	ac a	ga ao	cc ac	cc ac	CC CI	-9	Dro	1033
127	СУ	s Th	ır As	sp G	Ly A:	rg Cy	s C	ys Th	ır Pı	O H	is A	rg T	nr Th	11. T.I)0 11. re	=u	PIO	
128	ł			2	90				29	15				3 (, ,			1083
130	gt)	g ga	ig ti	tc a	ag t	ac co	et ga	ac go	go ga	19 91	LC d	cy di	ag aa	re De	an Ma	ບໆ ⊃†	Met	
		1 G1			ys C	ys Pi	O A	sp GJ	LY GI	Lu Võ	T IN	ec b	ys Ly 31	, 5 m	J. 1.1\			
132	?		3(05	~a +	~+ ~-	70 ±		LO at ta	ac a:	ac t	at c	cc gg		ac aa	at	gac	1131
134	tt	c at	c a	ag a	CC T	y L 90	יט טנ ים מי	yo da	יר הר בי הרי	jr Δ	sn C	vs P	ro G	Ly A	sp A	sn	Asp	
				ys T	III C	ys A.		у ъ п. 25			··· ·	3	30	4	-		-	
136)	32	20				٠.	4.5				,						



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139	atc ttt gaa tcg ctg tac tac agg aag atg tac gga gac atg gca tga Ile Phe Glu Ser Leu Tyr Tyr Arg Lys Met Tyr Gly Asp Met Ala * 335 340 345	1179
	333	1220
142	agccagagag tgagagacat taactcatta gactggaact tgaactgatt cacatctcat ttttccgtaa aaatgatttc agtagcacaa gttatttaaa tctgttttc taactggggg	1200
143	aaaagattoc caccaattc aaaacattgt gccatgtcaa acaaatagtc tatcttcccc	1350
144	agacactggt ttgaagaatg ttaagacttg acagtggaac tacattagta cacagcacca	1419
145	gaatgtatat taaggtgtgg ctttaggagc agtgggaggg taccggcccg gttagtatca	1417
140	tcagatcgac tcttatacga gtaatatgcc tgctatttga agtgtaattg agaaggaaaa	1539
14/ 1/Q	ttttagegtg eteactgace tgeetgtage eccagtgaca getaggatgt geatteteca	1599
140	gccatcaaga gactgagtca agttgttcct taagtcagaa cagcagactc agctctgaca	1659
150	ttctgattcg aatgacactg ttcaggaatc ggaatcctgt cgattagact ggacagcttg	1719
151	tggcaagtga atttgcctgt aacaagccag atttttaaa atttatattg taaatattgt	1779
152	gtgtgtgtgt gtgtgtgtat atatatatat atatgtacag ttatctaagt taatttaaag	1839
153	ttgtttgtgc ctttttattt ttgtttttaa tgctttgata tttcaatgtt agcctcaatt	1899
154	totgaacaco ataggtagaa tgtaaagott gtotgatogt toaaagoatg aaatggatao	1959
	ttatatggaa attctgctca gatagaatga cagtccgtca aaacagattg tttgcaaagg	
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207	Troop bagbanes, (





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Input Set : A:\RTS-0274 Sequence Listing.txt Output Set: N:\CRF3\12142001\I006191.raw

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249 ageageeeea geeeageega caaceeeaga egeeacegee tggagegtee agacaceaa 250 eteegeeeet gteegaatee aggeteegge egegeetete gtegeetetg caecetget 251 tgeateetee taeegegtee egate atg ete gee tee gte gea ggt eee ate	2 120												
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agcagcccca gcccagccga caaccccaga cgccaccgcc tggagcgtcc agacaccaa 250 ctccgccct gtccgaatcc aggctccggc cgcgcctctc gtcgcctctg caccctgct 251 tgcatcctcc taccgcgtcc cgatc atg ctc gcc tcc gtc gca ggt ccc atc 252	2 120 9 180 232 280												
agcagcccca gcccagccga caaccccaga cgccaccgcc tggagcgtcc agacaccaa 250 ctccgccct gtccgaatcc aggctccggc cgcgcctctc gtcgcctctg caccctgct 251 tgcatcctcc taccgcgtcc cgatc atg ctc gcc tcc gtc gca ggt ccc atc 252	2 120 3 180 232 280 328												
agcagccca gcccagccga caaccccaga cgccaccgcc tggagcgtcc agacaccaa 250 ctccgccct gtccgaatcc aggctccggc cgcgcctctc gtcgcctctg caccctgct 251 tgcatcctcc taccgcgtcc cgatc atg ctc gcc tcc gtc gca ggt ccc atc 252	2 120 9 180 232 280 328												
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249 agcagececa geceageega caaceceaga egecacegee tggagegtee agacaceaa 250 eteegeeet gteegaatee aggeteegge egegeetete gtegeeteteg caecetget 251 tgeateetee taeegegtee egate atg ete gee tee gte gea ggt eee ate 252	2 120 9 180 232 280 328												
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agcagccca gcccagccga caaccccaga cgccaccgcc tggagcgtcc agacaccaa 250 ctccgccct gtccgaatcc aggctccggc cgcgcctctc gtcgcctctg caccctgct 251 tgcatcctcc taccgcgtcc cgatc atg ctc gcc tcc gtc gca ggt ccc atc 252	2 120 180 232 280 328 376 424 472												
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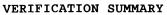
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280		ser	val	Tyr	110	ser	GIĄ	GLu	Ser	Pne 115	GIn	Ser	Ser	Cys	Lys 120	Tyr	
		tac	act	tac		σat	ααα	acc	gtg		tac	ata	000	ata		200	616
284	Gln	Cvs	Thr	Cvs	Len	Asn	61v	Δla	Val	990 61v	Cve	y cy Val	Dro	Tou	Cvc	age	010
285		O ₁ B	****	125	200	пор	017	711 G	130	CLY	Cys	Val	FIO	135	_	ser	
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288	Met	Asp	Val	Ara	Leu	Pro	Ser	Pro	Asp	Cvs	Pro	Dhe	Dro	Ara	Arα	y LC Val	004
289			140	9				145	sp	C _I S	110	1 110	150	ALG	ALG	Val	
		cta	cct	aaa	aaa	tac	tac		gag	taa	ata	tat		aaa	000	220	712
292	Lvs	Leu	Pro	Glv	Lvs	Cvs	Cvs	Glu	Glu	Trn	Val	Cvs	Δgn	Glu	Dro	Tue	/12
293		155		1	-1-	-1-	160		0_u		, 41	165	пор	Olu	110	цуз	
295	qac	cac	aca	qca	att	aac		αcc	cta	act	acc		caa	cta	αaa	gac	760
296	Āsp	Arq	Thr	Ala	Val	Glv	Pro	Ala	Leu	Ala	Ala	Tyr	Ara	T.OII	Glu	Aen	700
	170	,				175					180	-1-	*****9	ЦCu	OIU	185	
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300	Thr	Phe	Glv	Pro	Asp	Pro	Thr	Met	Met	Ara	Ala	Asn	Cvs	T.e.ii	Val	Gln	000
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305				205			- 1		210		010	011		215	110	DCI	
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308	Thr	Arq	Val	Thr	Asn	Asp	Asn	Thr	Phe	Cvs	Ara	Leu	Glu	Lvs	Gln	Ser	704
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311	cgc	ctc	tgc	atq	qtc	aqq	ccc	tac	gaa	act	gac	ct.a		αаа	aac	att	952
312	Arg	Leu	Cys	Met	Val	Arq	Pro	Cvs	Glu	Ala	Asp	Leu	Glu	Glu	Asn	Tle	732
313	_	235	-			_	240					245		0	11011	110	
315	aag	aag	ggc	aaa	aaq	tqc	atc	caa	aca	cct	aaa		acc	ааσ	cct	atc	1000
316	Lys	Lys	Gly	Lys	Lys	Cys	Ile	Arg	Thr	Pro	Lvs	Ile	Ala	Lvs	Pro	Val	2000
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319	aag	ttt	gag	ctt	tct	ggc	tgc	acc	agt	ata	aaq	aca	tac	aσσ	act.		1048
320	Lys	Phe	Glu	Leu	Ser	Gly	Cys	Thr	Ser	Val	Lys	Thr	Tyr	Arq	Ala	Lvs	2010
321					270					275	-		•	,	280	_1 -	
323	ttc	tgc	ggg	gtg	tgc	aca	gac	ggc	cgc	tgc	tgc	aca	ccq	cac		acc	1096
324	Phe	Cys	Gly	Val	Cys	Thr	Asp	Gly	Arg	Cys	Cys	Thr	Pro	His	Arg	Thr	
325				285				_	290	_	_			295			
327	acc	act	ctg	cca	gtg	gag	ttc	aaa	tgc	ccc	gat	ggc	qaq	atc	atq	aaa	1144
328	Thr	Thr	Leu	Pro	Val	Glu	Phe	Lys	Cys	Pro	Åsp	Gly	Glu	Ile	Met	Lys	
329			300					305					310				
331	aag	aat	atg	atg	ttc	atc	aag	acc	tgt	gcc	tgc	cat	tac	aac	tat	cct	1192
332	Lys	Asn	Met	Met	Phe	Ile	Lys	Thr	Cys	Ala	Cys	His	Tyr	Asn	Cys	Pro	
333		315					320					325					
335	ggg	gac	aat	gac	atc	ttt	gag	tcc	ctg	tac	tac	agg	aag	atg	tac	gga	1240
336	Gly	Asp	Asn	Asp	Ile	Phe	Glu	Ser	Leu	Tyr	Tyr	Arg	Lys	Met	Tyr	Gly	
337	330					335					340				_	345	
339	gac	atg	gcg	taa	agco	agga	ag t	aagg	gaca	c ga	acto	atta	gac	tata	act		1292
340	Asp	Met	Ala	*													
343	tgaa	ctga	gt t	gcat	ctca	t tt	tctt	ctgt	aaa	aaca	att	acag	tago	ac a	ttaa	tttaa	1352
344	atct	.gtgt	tt t	taac	tacc	g tg	ggag	gaac	tat	ccca	cca	aagt	gaga	ac g	ttat	gtcat	1412



PATENT APPLICATION: US/10/006,191

DATE: 12/14/2001

TIME: 10:30:21

Input Set : A:\RTS-0274 Sequence Listing.txt Output Set: N:\CRF3\12142001\I006191.raw

 $\hbox{L:}13~\text{M:}270~\text{C:}~\text{Current Application Number differs, Replaced Current Application No}\\ \hbox{L:}13~\text{M:}271~\text{C:}~\text{Current Filing Date differs, Replaced Current Filing Date}$